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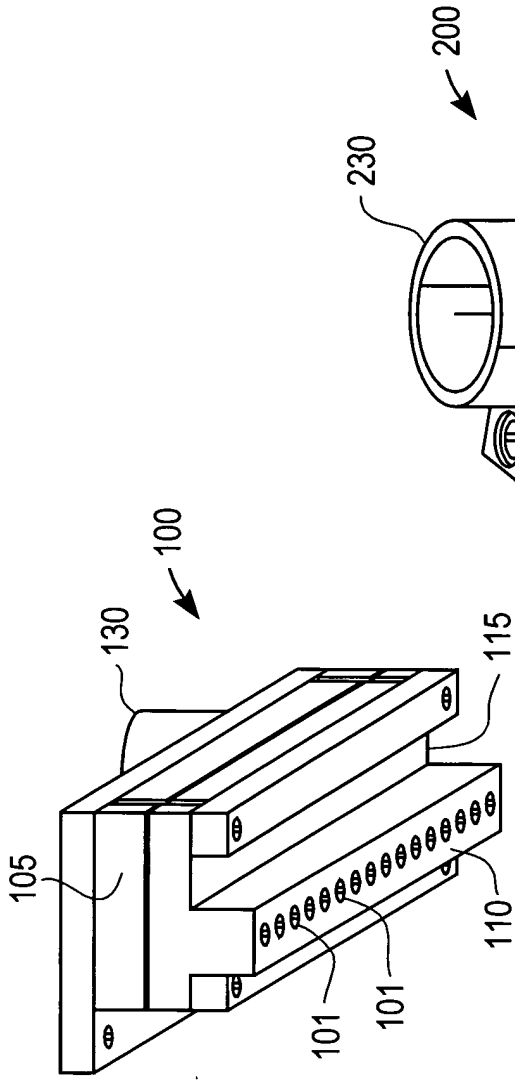


FIG. 1

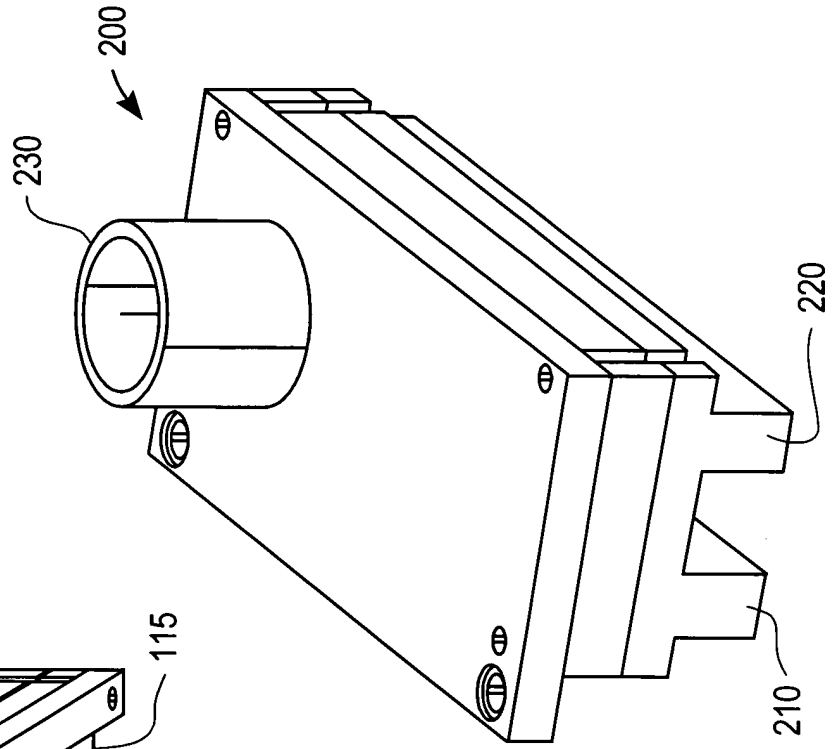


FIG. 2

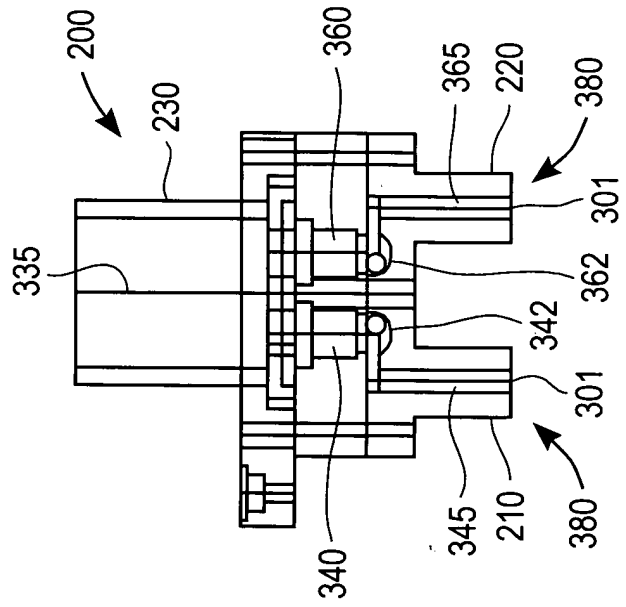


FIG. 3

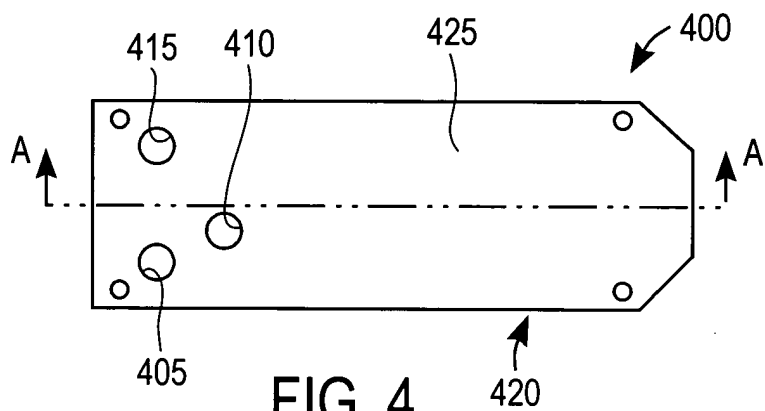


FIG. 4

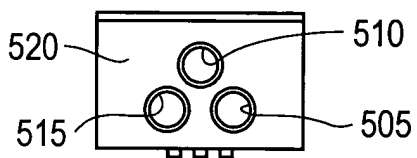


FIG. 5

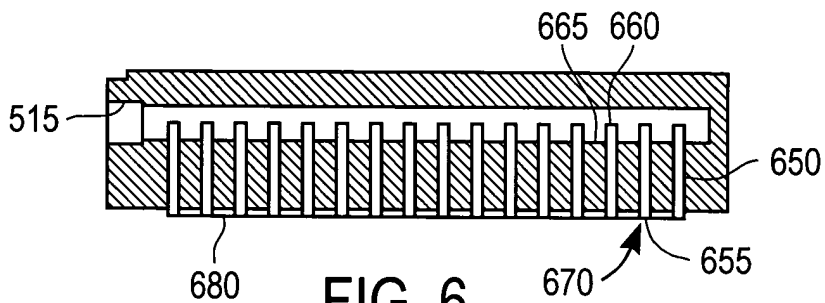


FIG. 6

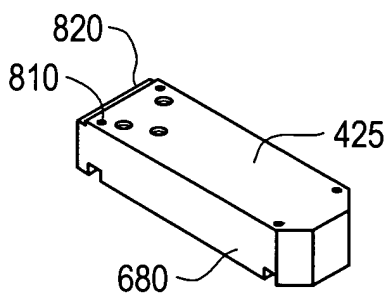


FIG. 8

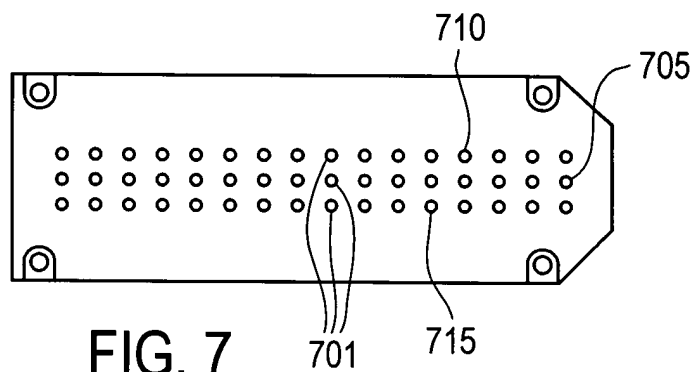


FIG. 7

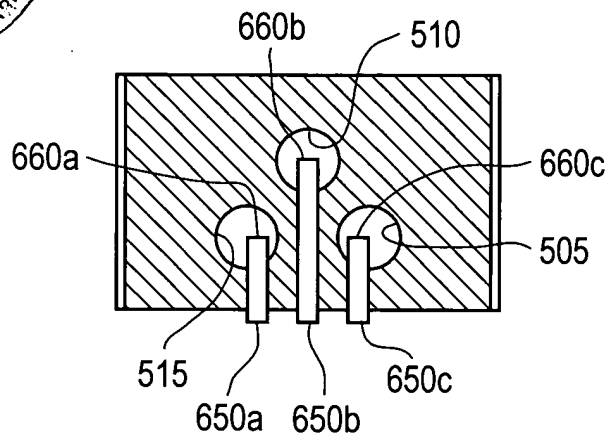


FIG. 9

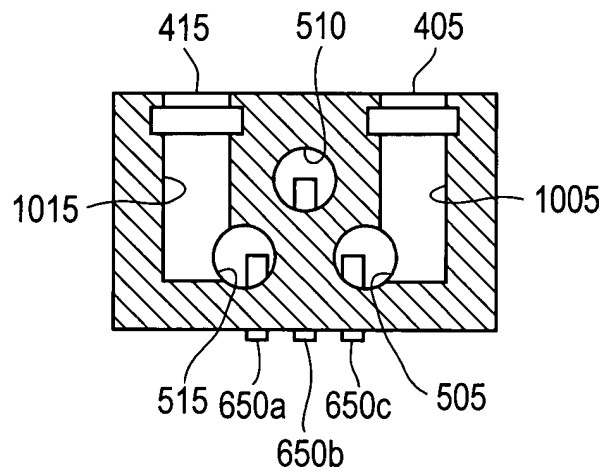


FIG. 10

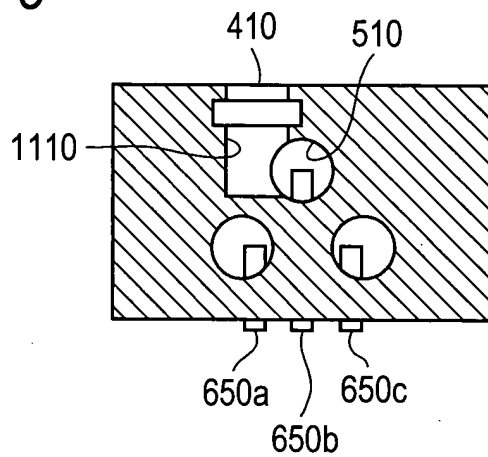


FIG. 11

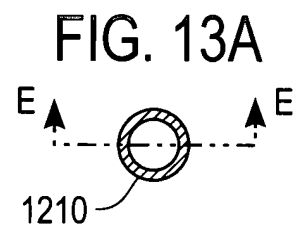


FIG. 12A

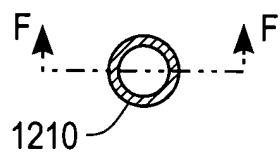


FIG. 12B

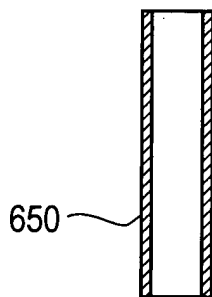
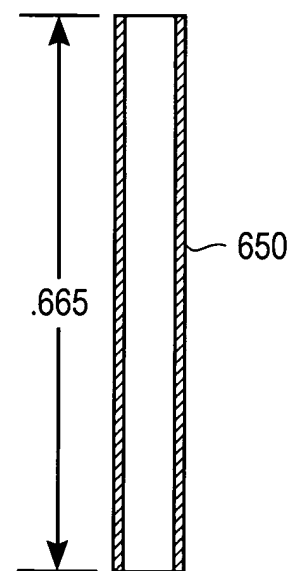


FIG. 13B



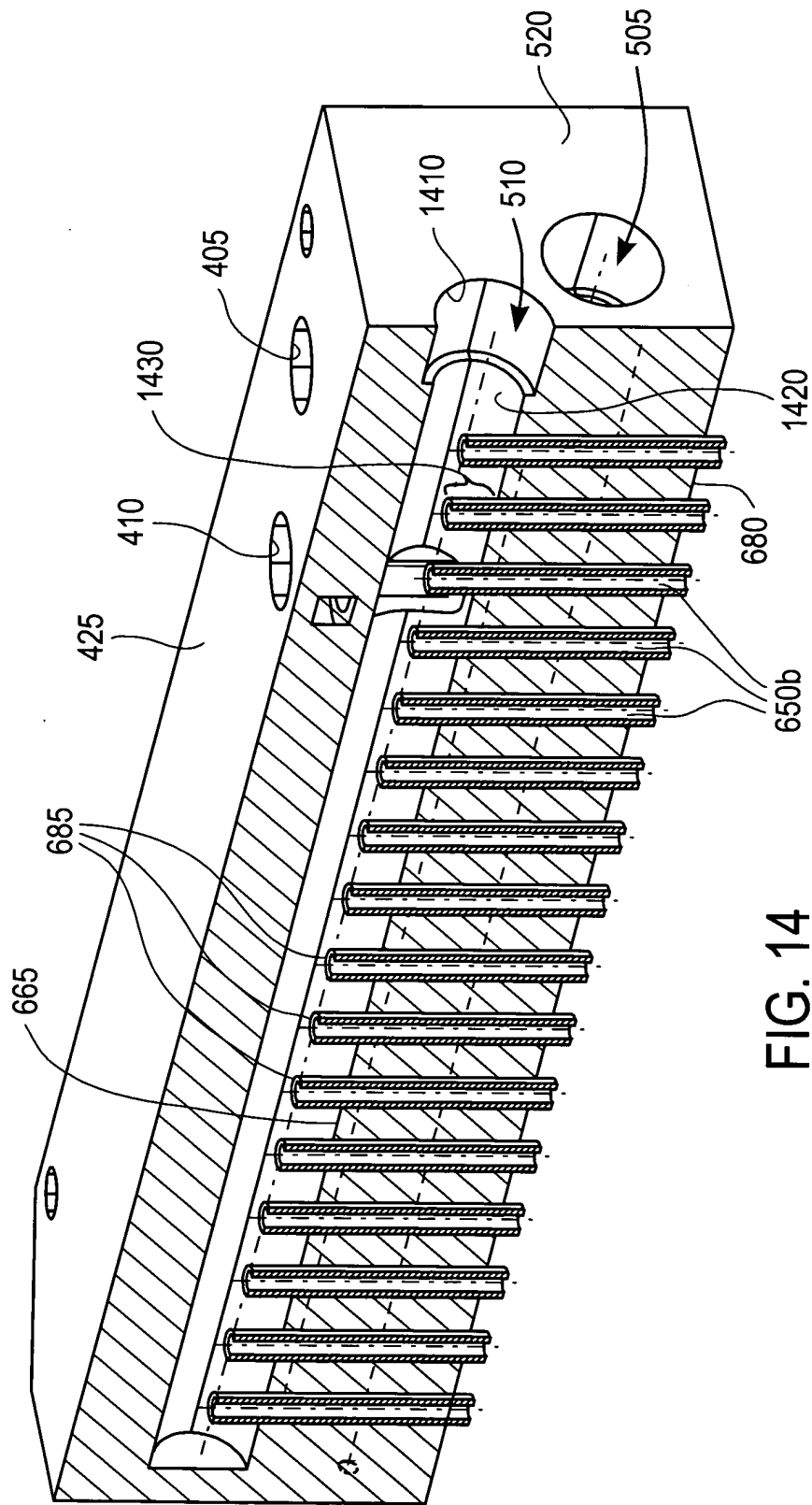
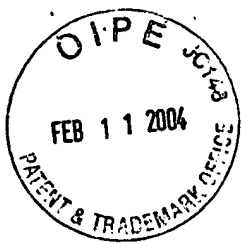


FIG. 14



Develop Rates At 121 Wafer Locations, Develop Arm Offset = 0mm
TOK 9: Dose = 12: Develop Time = 10sec.

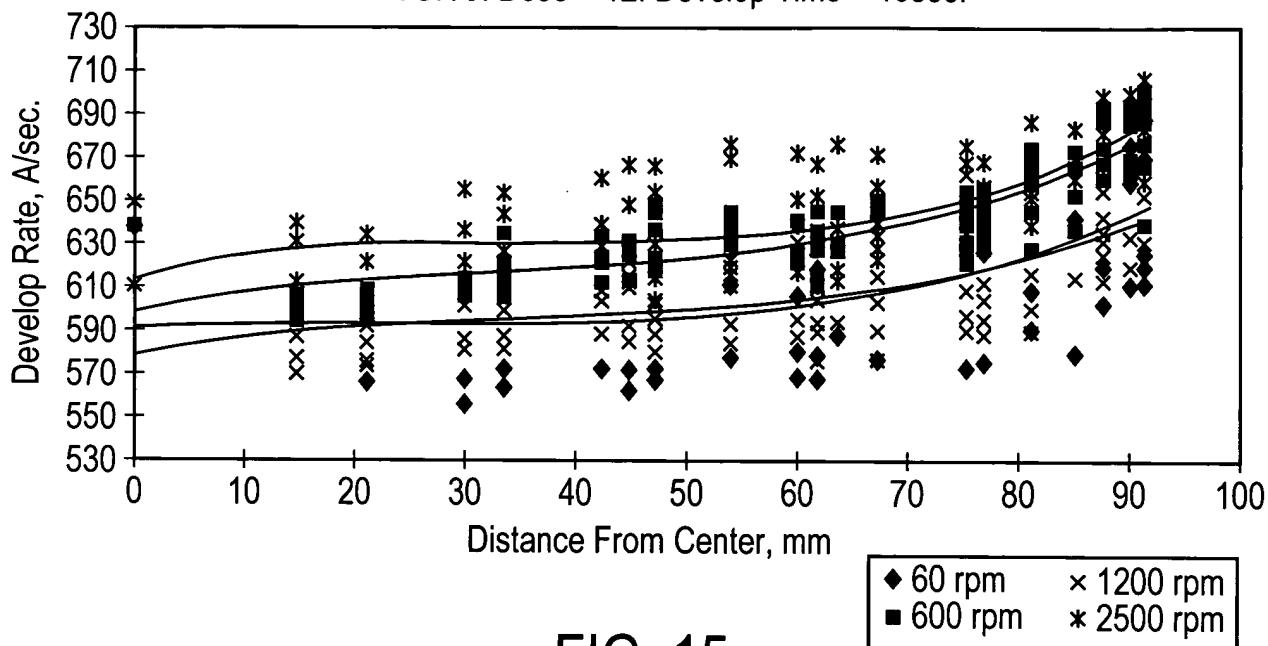


FIG. 15

Develop Rates At 121 Wafer Locations, Develop Arm Offset = 5mm
TOK 9: Dose = 12: Develop Time = 10sec.

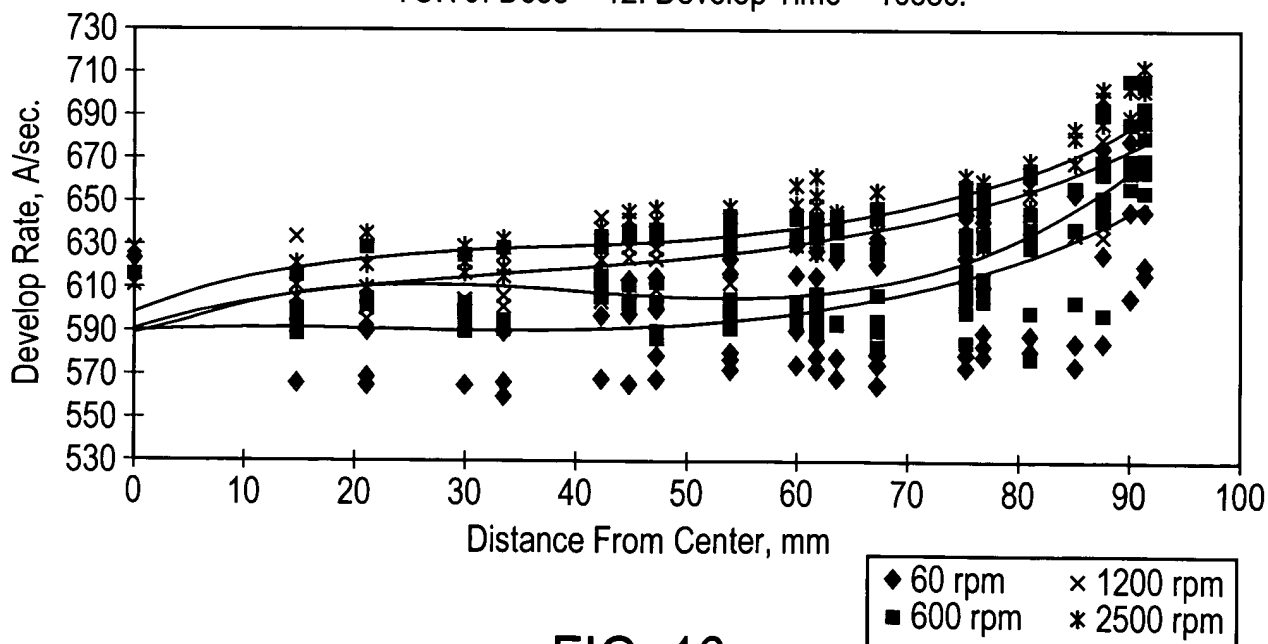


FIG. 16

Develop Rates At 121 Wafer Locations, Develop Arm Offset = 10mm
TOK 9: Dose = 12: Develop Time = 10sec.

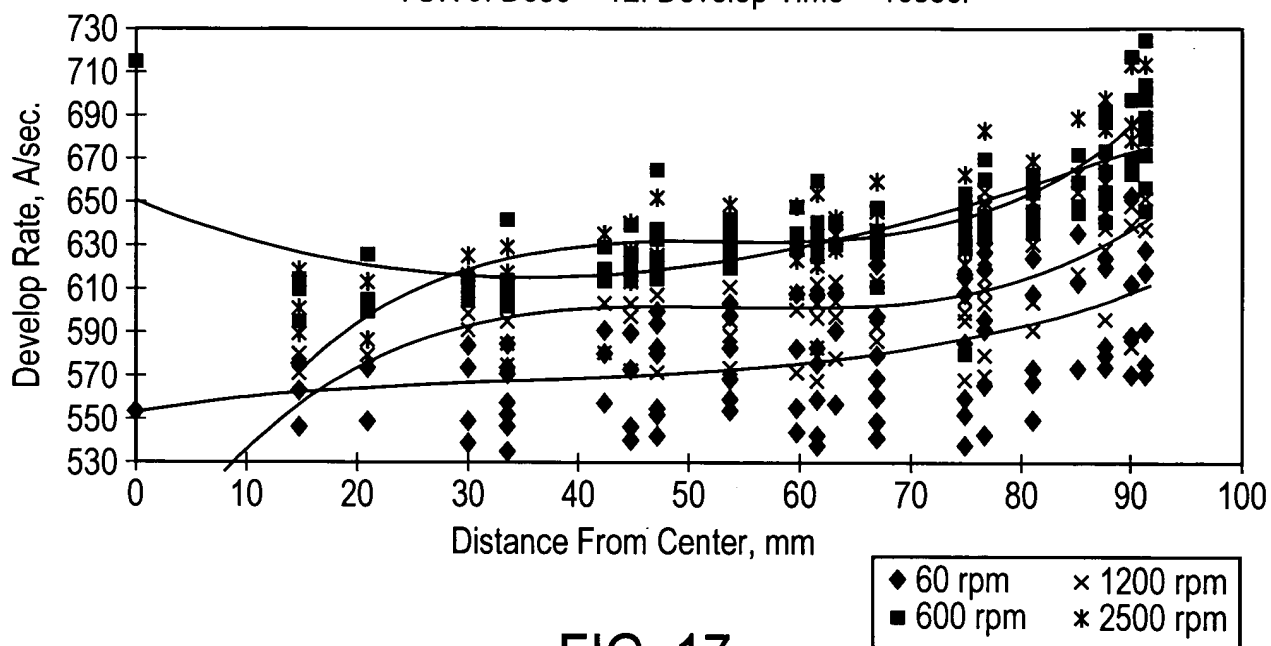


FIG. 17

Develop Rates At 121 Wafer Locations, Develop Arm Offset = 20mm
TOK 9: Dose = 12: Develop Time = 10sec.

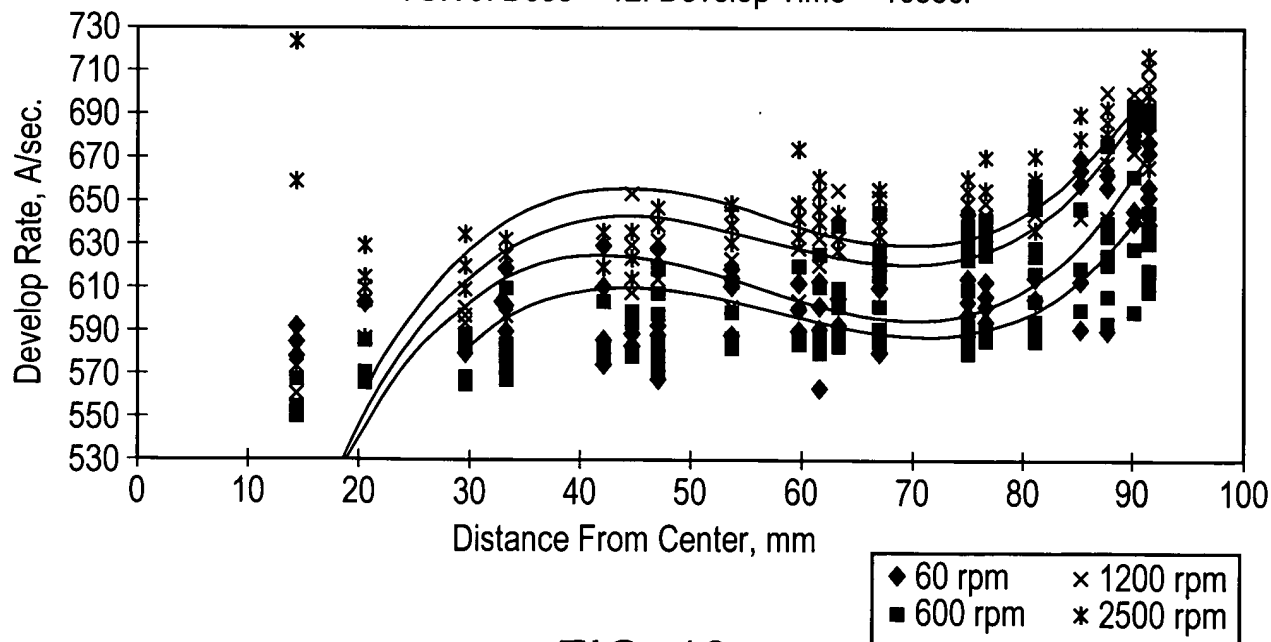


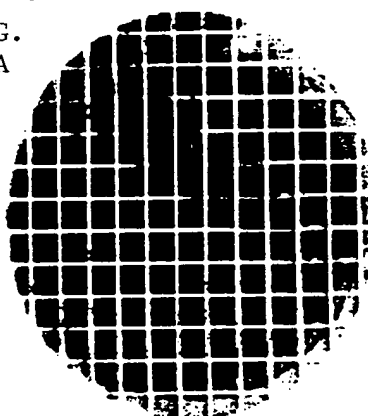
FIG. 18



IPEC Develop Rate Maps for Arm Offset=0mm

Spin speed 60 rpm

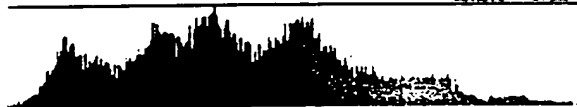
FIG.
19A



708.0 A.
688.0 A.
678.0 A.
668.0 A.
648.0 A.
638.0 A.
618.0 A.
608.0 A.
588.0 A.
570.0 A.

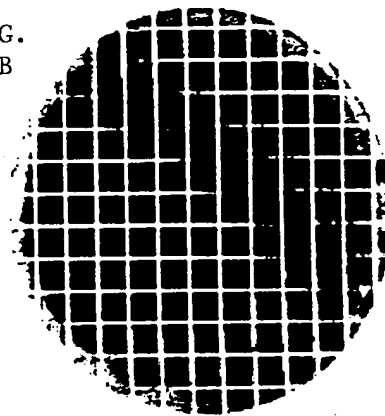
Xpos = 108
Ypos = -43
Value = -0.0 A.

-Histogram-
Total-C: 28200
MinLimit: 507.0 A.
MaxLimit: 1237.0 A.
0.0-100.0: 0.0 %
601.0 A. - 121.00



Spin speed 600 rpm

FIG.
19B



738.0 A.
718.0 A.
708.0 A.
688.0 A.
670.0 A.
658.0 A.
648.0 A.
628.0 A.
610.0 A.
605.0 A.

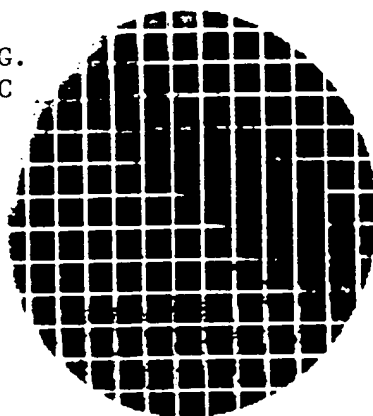
Xpos = 87
Ypos = -38
Value = 678.7 A.

-Histogram-
Total-C: 21876
MinLimit: 680.0 A.
MaxLimit: 730.0 A.
0.0-100.0: 2.1 %
688.0 A. - 68.00



Spin speed 1200 rpm

FIG.
19C



710.0 A.
688.0 A.
680.0 A.
668.0 A.
650.0 A.
638.0 A.
628.0 A.
608.0 A.
590.0 A.
575.0 A.

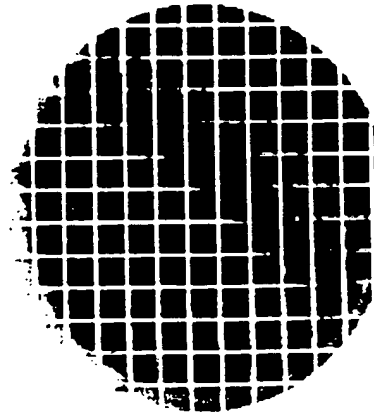
Xpos = 6
Ypos = -18
Value = 577.7 A.

-Histogram-
Total-C: 28221
MinLimit: 109.3 A.
MaxLimit: 1227.7 A.
0.0-100.0: 0.0 %
684.0 A. - 139.00



Spin speed 2500 rpm

FIG.
19D



740.0 A.
728.0 A.
710.0 A.
688.0 A.
680.0 A.
668.0 A.
650.0 A.
638.0 A.
620.0 A.
605.0 A.

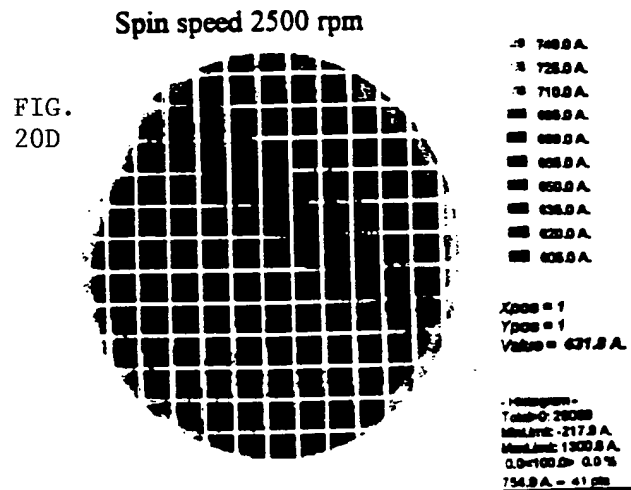
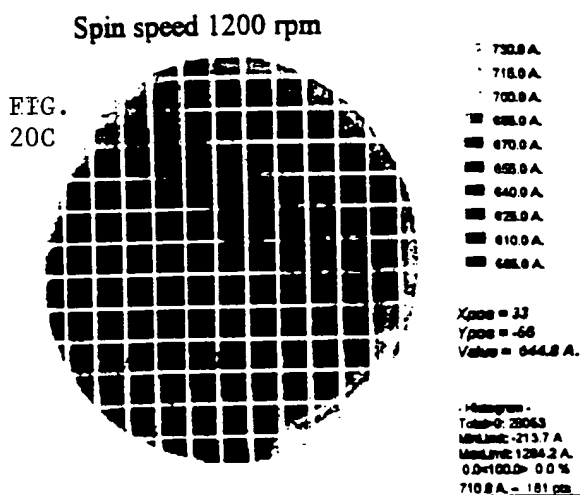
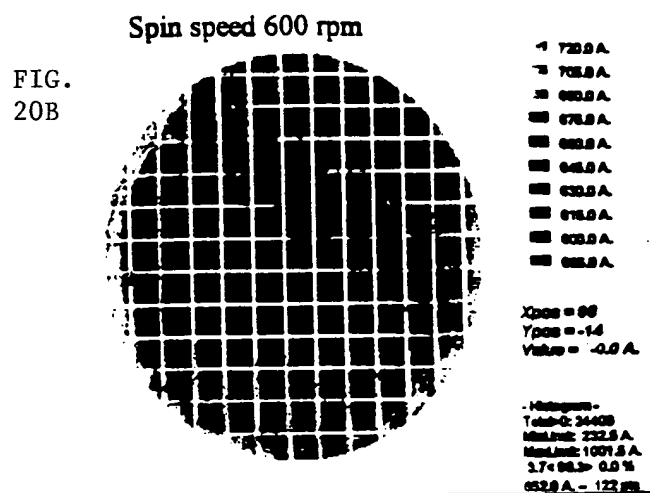
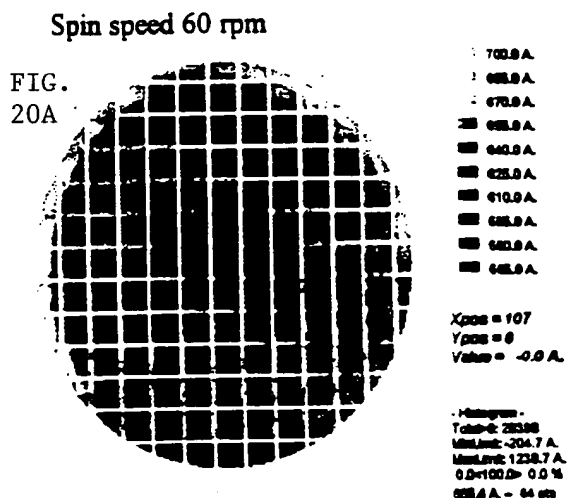
Xpos = 108
Ypos = 110
Value = -0.0 A.

-Histogram-
Total-C: 27078
MinLimit: 213.1 A.
MaxLimit: 1288.3 A.
0.0-100.0: 0.0 %
628.0 A. - 210.00





IPEC Develop Rate Maps for Arm Offset=5mm

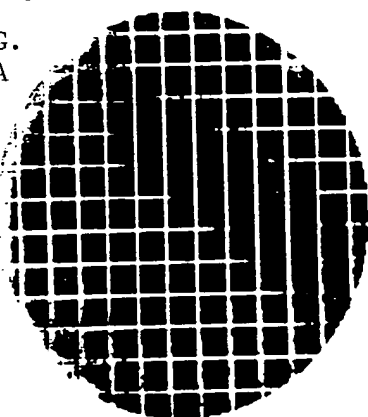




IPEC Develop Rate Maps for Arm Offset=10mm

Spin speed 60 rpm

FIG.
21A



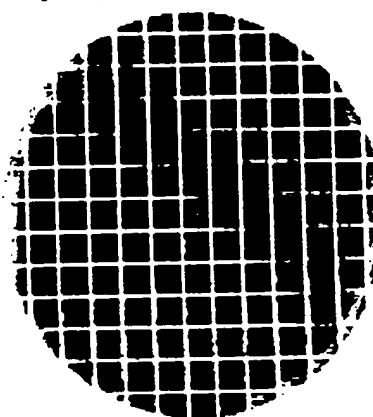
680.0 A
680.0 A
680.0 A
630.0 A
620.0 A
600.0 A
600.0 A
600.0 A
670.0 A
640.0 A
640.0 A
Xpos = 63
Ypos = 73
Value = -0.0 A

Histogram -
Total: 28237
MinLimit: 1180.0 A
MaxLimit: 1181.0 A
0.0-100.0: 0.0 %
680.0 A - 0.0



Spin speed 600 rpm

FIG.
21B



740.0 A
720.0 A
710.0 A
680.0 A
680.0 A
680.0 A
680.0 A
630.0 A
620.0 A
620.0 A

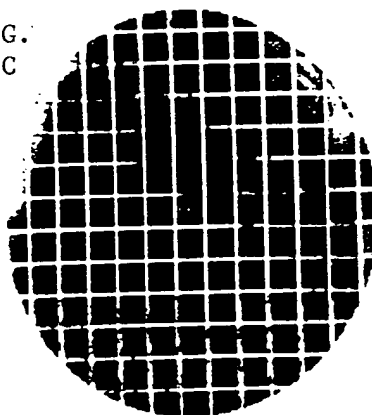
Xpos = 68
Ypos = 0
Value = 681.0 A

Histogram -
Total: 21884
MinLimit: 680.0 A
MaxLimit: 740.0 A
0.0-100.0: 2.3 %
771.0 A - 0.0



Spin speed 1200 rpm

FIG.
21C



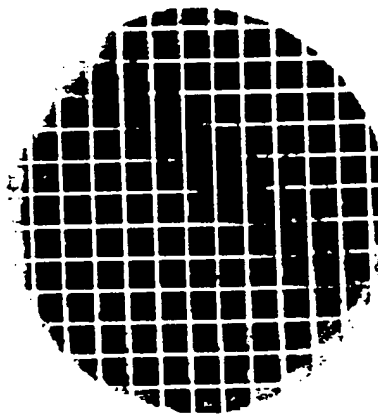
710.0 A
680.0 A
680.0 A
680.0 A
680.0 A
630.0 A
620.0 A
600.0 A
600.0 A
670.0 A
Xpos = 61
Ypos = -98
Value = -0.0 A

Histogram -
Total: 25248
MinLimit: 1180.0 A
MaxLimit: 1220.0 A
0.0-100.0: 0.0 %
680.0 A - 10.0



Spin speed 2500 rpm

FIG.
21D



730.0 A
710.0 A
700.0 A
680.0 A
670.0 A
650.0 A
640.0 A
620.0 A
610.0 A
600.0 A

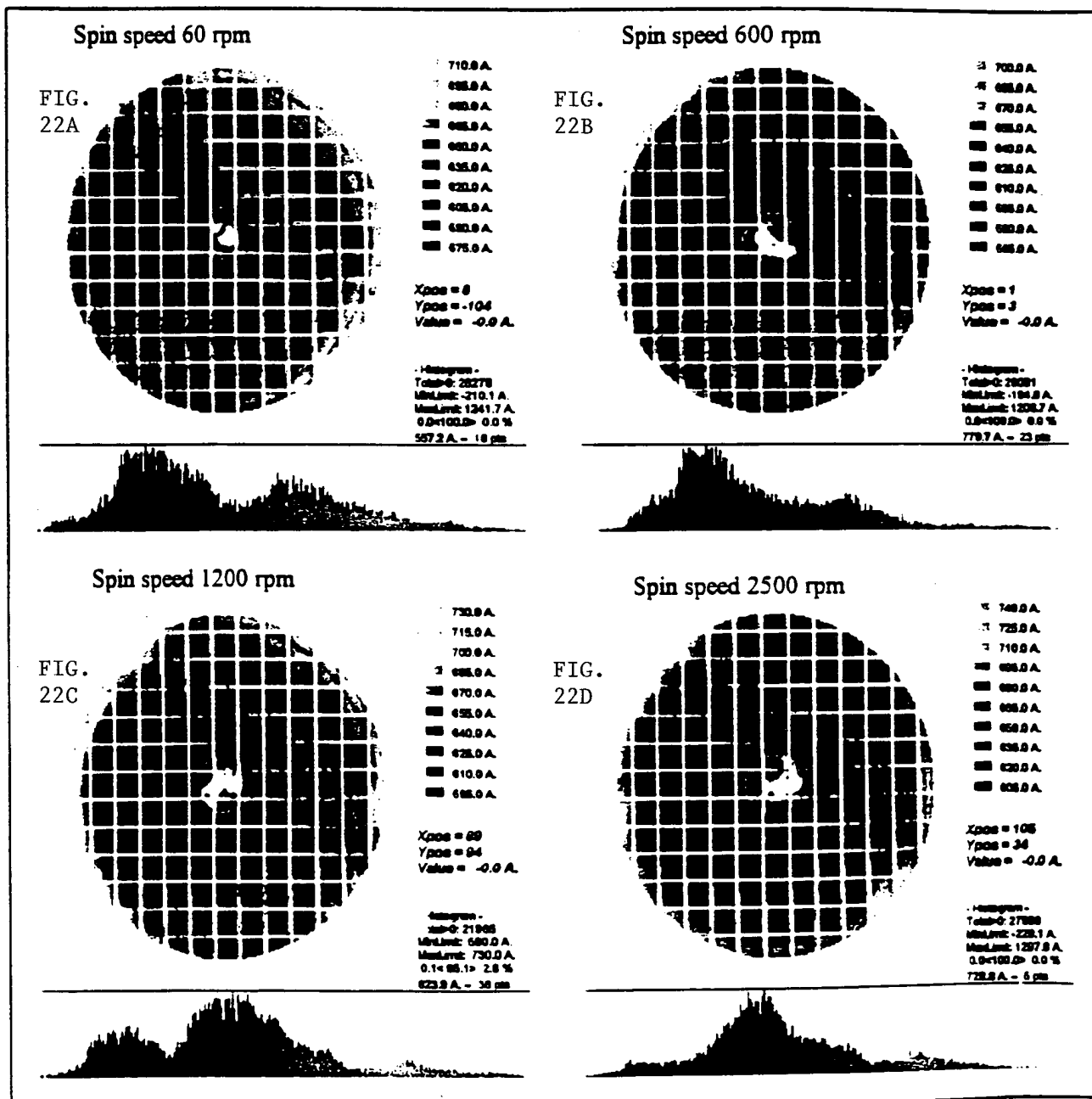
Xpos = 98
Ypos = 80
Value = -0.0 A

Histogram -
Total: 25048
MinLimit: 214.7 A
MaxLimit: 1287.0 A
0.0-100.0: 0.0 %
677.0 A - 20.0

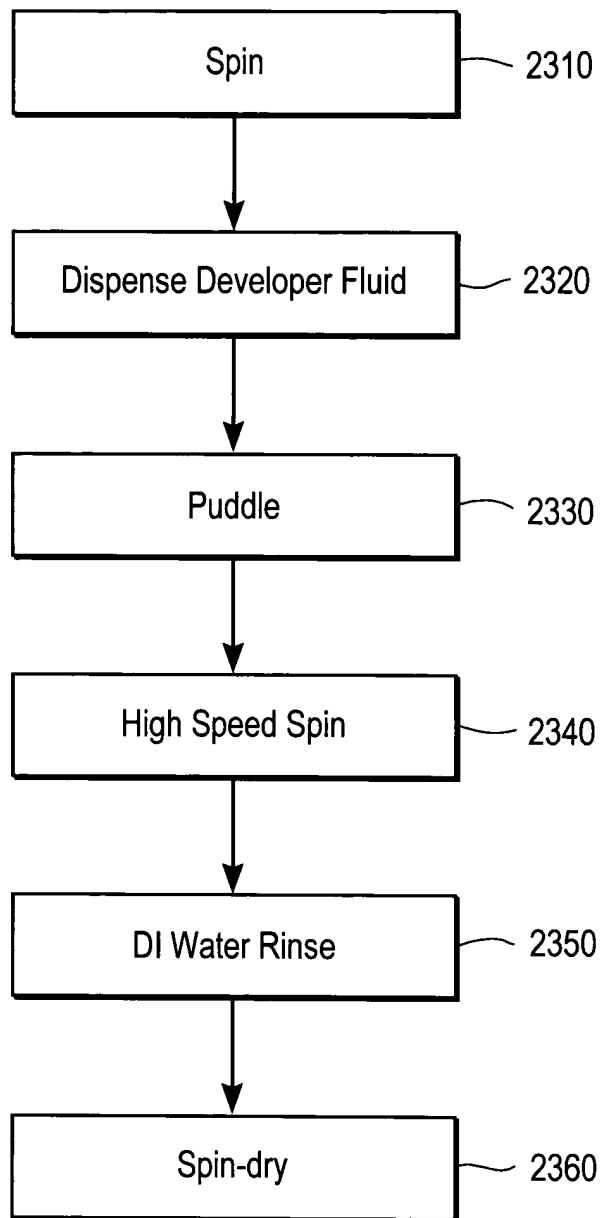




IPEC Develop Rate Maps for Arm Offset=20mm



2300



Related Art

FIG. 23A

2300

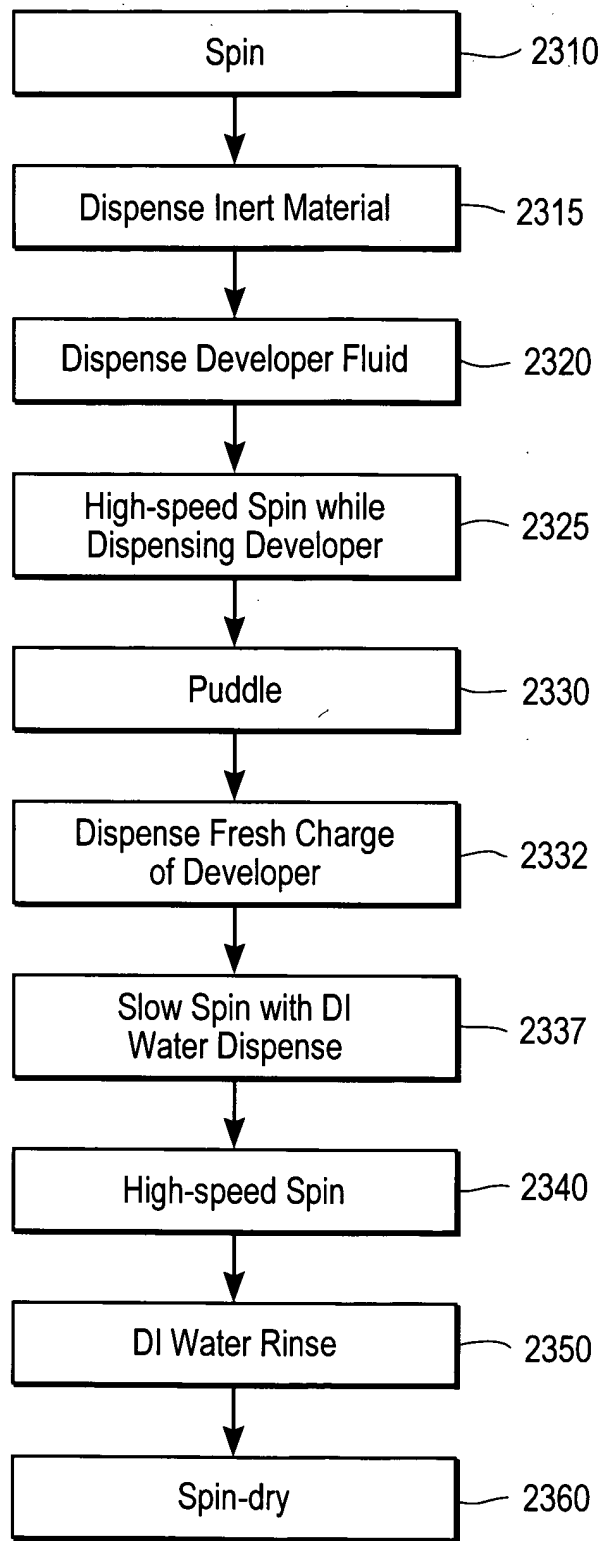


FIG. 23B